

ABSTRACT

Fluid filtration devices that include nylon membranes are provided according to the present disclosure that maintain thorough wetting of a membrane through the end cap bonding process. The fluid filtration device typically includes a pleated microporous nylon filter media and polypropylene end caps. The pleated microporous filter media is treated with hydrophilic polymeric surface treatments at the ends thereof prior to contact with molten polypropylene end caps, thereby maintaining the ability to integrity test the filtration device in water. Exemplary polymeric surface treatments include solutions and dispersions of polyvinyl alcohol, polyethyleneimine, a combination of 1-4 butanediol diglycidyl ether and ethylene amine, and a quaternary amine polyepichlorohydrin.

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